

LPGS CDR ADDENDA

(1 OF 3)

Package Contents

ADDENDUM 1 - LPGS GUI.....3

ADDENDUM 2 - LPGS OPERATIONAL SCENARIOS.....(see 2 of 3)

ADDENDUM 3 - ABBREVIATIONS.....(see 3 of 3)

ADDENDUM 4 - DEFINITIONS.....(see 3 of 3)

ADDENDUM 1 - LPGS GUI

Introduction

This addendum explains each LPGS GUI command. Explanations are arranged according to the main menu's top-level pulldown menus. Figure 1 shows a view of the LPGS main menu bar. Each explanation includes description of what the menu option does, what additional information you may need to provide, what default values are used when you do not supply additional information, and explanations of any additional dialogs displayed by the LPGS GUI.

This addendum does not provide step-by-step explanations for performing LPGS procedures. To find out how to carry out a specific procedure, refer to LPGS User's Guide.

System Menu

The System Menu (Figure 1) contains commands to view or edit parameters that apply to the overall maintenance and operations of the LPGS system.

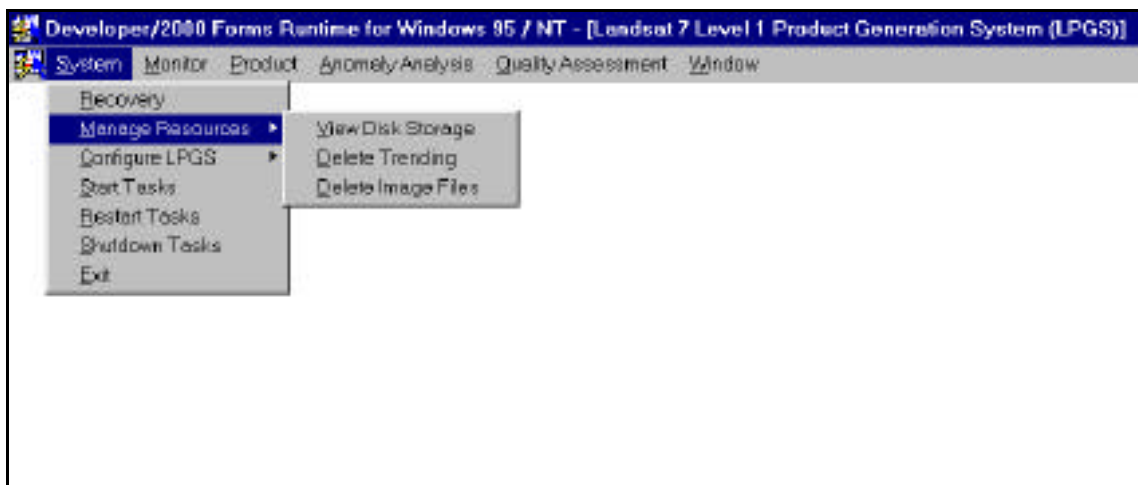


Figure 1. Main, System, and Resources Menus

Recovery

Selecting this option brings up the Failed Process Resource Recovery screen (Figure 2). If the LPGS cannot automatically generate a L1 product and the Analyst cannot correct the problem with the product generation, the process is failed and the operator is notified of the failure. This screen provides the capability for the operator to recover the resources used by the failed process and initiate reprocessing. The operator enters, or selects from a list, the Product Request ID of the failed process and chooses one of three options for recovering the resources used by the failed process:

- Restore Product Request to initial state. Intermediate and work files are deleted and any input files which might have been modified are restored to as received contents.

- Restore Product Request to no data state. Intermediate, work, and input files are deleted. Input files will be re-requested and input from ECS.
- Delete all files and products associated with this Product Request. No additional processing will occur for this Product Request without operator intervention.

To perform the operation, select the COMMIT button, to bypass the operation select the CANCEL button.

Product Request I.D. of failed process

☐ Restore Product Request to initial data state. Image file contents restored to as received contents and all intermediate files and products deleted. (L1 processing will be restarted when this Product Request reaches the top of the processing queue)

☐ Restore Product Request to no data state. All LOR, intermediate files and products are deleted (LOR products for this Product Request will be retrieved from ECS when this Product Request reaches the top of the queue of files awaiting data)

☐ Delete all files and products associated with this Product Request (Operator intervention through the Anomaly Analysis System is required to reactivate this Product Request)

COMMIT CANCEL

Count: *0 <Insert>

Figure 2. Failed Process Resource Recovery Menu

Manage Resources

Selecting this option brings up a submenu with three options—View Disk Storage, Delete Trending, or Delete Image Files (Figure 1).

View Disk Storage

Selecting this option allows the user to execute *ad hoc* displays of mass storage utilization using a UNIX shell.

Delete Trending Data

Selecting this option brings up the Manage Resources—Delete Trending Data screen (Figure 3). This screen provides the capability for the operator to effect immediate deletion of trending data collected by the LPGS associated with specific Product Requests. The operator can select any group of data not currently marked for deletion by clicking the button next to the Product Request ID and then click COMMIT to cause the selected trending data and the trending data marked for deletion to be immediately removed. Automatic processing deletes these files (for trending data retrieved by IAS) on a periodic basis. The CANCEL button bypasses the operation.

SYSTEM RESOURCES - DELETE TRENDING DATA

Trending Data Marked For Deletion

Trending Data NOT Marked For Deletion

☒ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending
☐ Product_Request_Trending

Press button next to each product to be marked for deletion. When screen is committed, all files marked for deletion will be deleted.

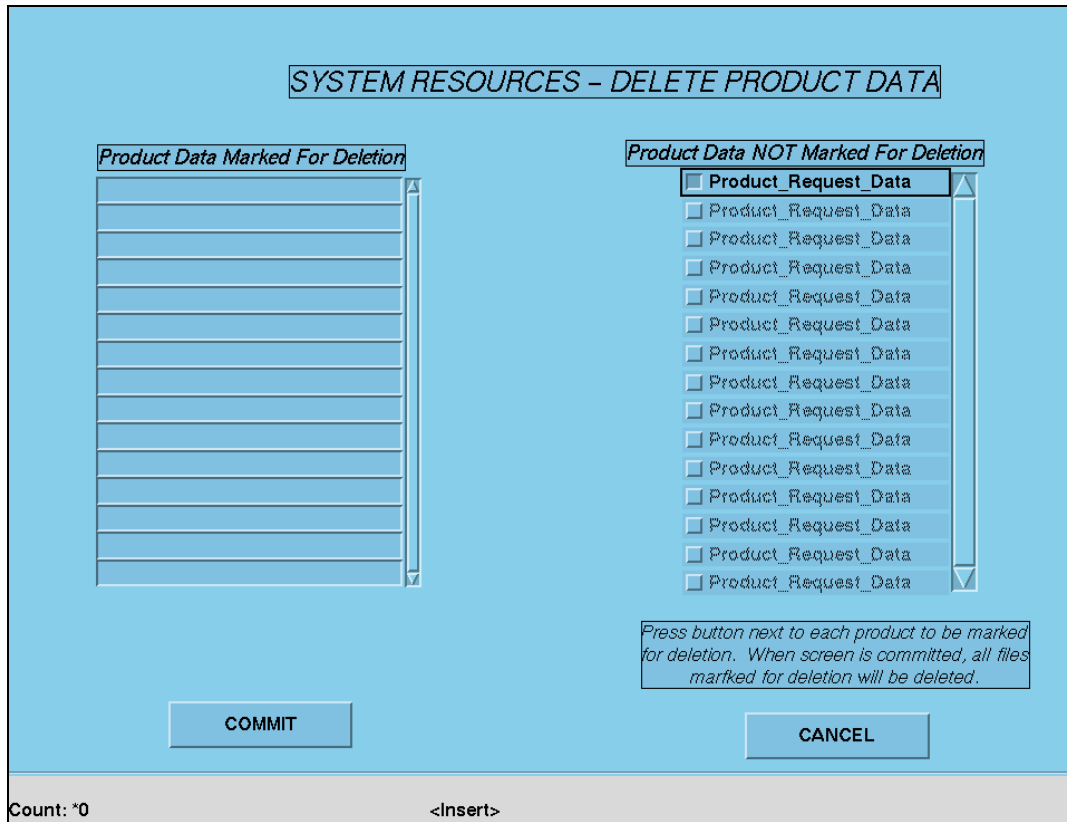
COMMIT **CANCEL**

Count: *0 <Insert>

Figure 3. Delete Trending Data Form

Delete Image Files

Selecting this option brings up the Manage Resources—Delete Product Data screen (Figure 4). This screen provides the capability for the operator to effect immediate deletion



SYSTEM RESOURCES - DELETE PRODUCT DATA

Product Data Marked For Deletion

Product Data NOT Marked For Deletion

<input checked="" type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data
<input type="checkbox"/> Product_Request_Data

COMMIT

CANCEL

Press button next to each product to be marked for deletion. When screen is committed, all files marked for deletion will be deleted.

Count: *0
<Insert>

Figure 4. Delete Product Data Form

of image products associated with specific Product Requests. The operator can select any group of product requests not currently marked for deletion by clicking the button next to the Product Request ID and then click COMMIT to cause the selected Product Requests and the Product Requests marked for deletion to be immediately removed. Automatic processing deletes these files (for products successfully transmitted to ECS) on a periodic basis. The CANCEL button bypasses the operation.

Configure LPGS

Selecting this option brings up a submenu with two options to display/modify system level parameters—System Parameters or ECS Interface Parameters (Figure 5).

System Parameters

Selecting this option brings up the Set Up LPGS Configuration Parameters screen (Figure 6). This screen displays and allows operator modification of a series of configuration parameters that control the operation of the LPGS. If any of the information on the screen is modified or added the user must use the OK button to update the database or the CANCEL button to leave the database unmodified.

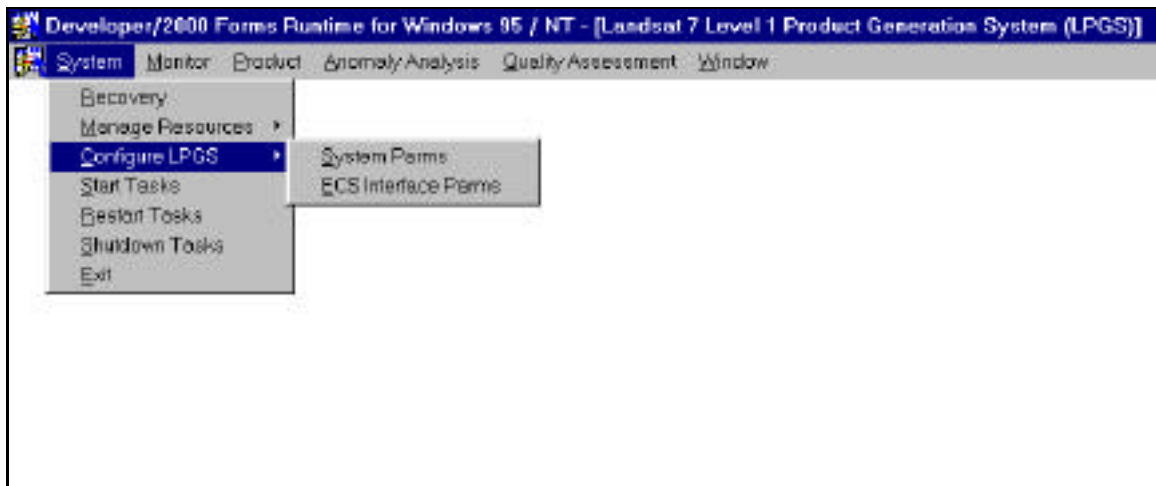


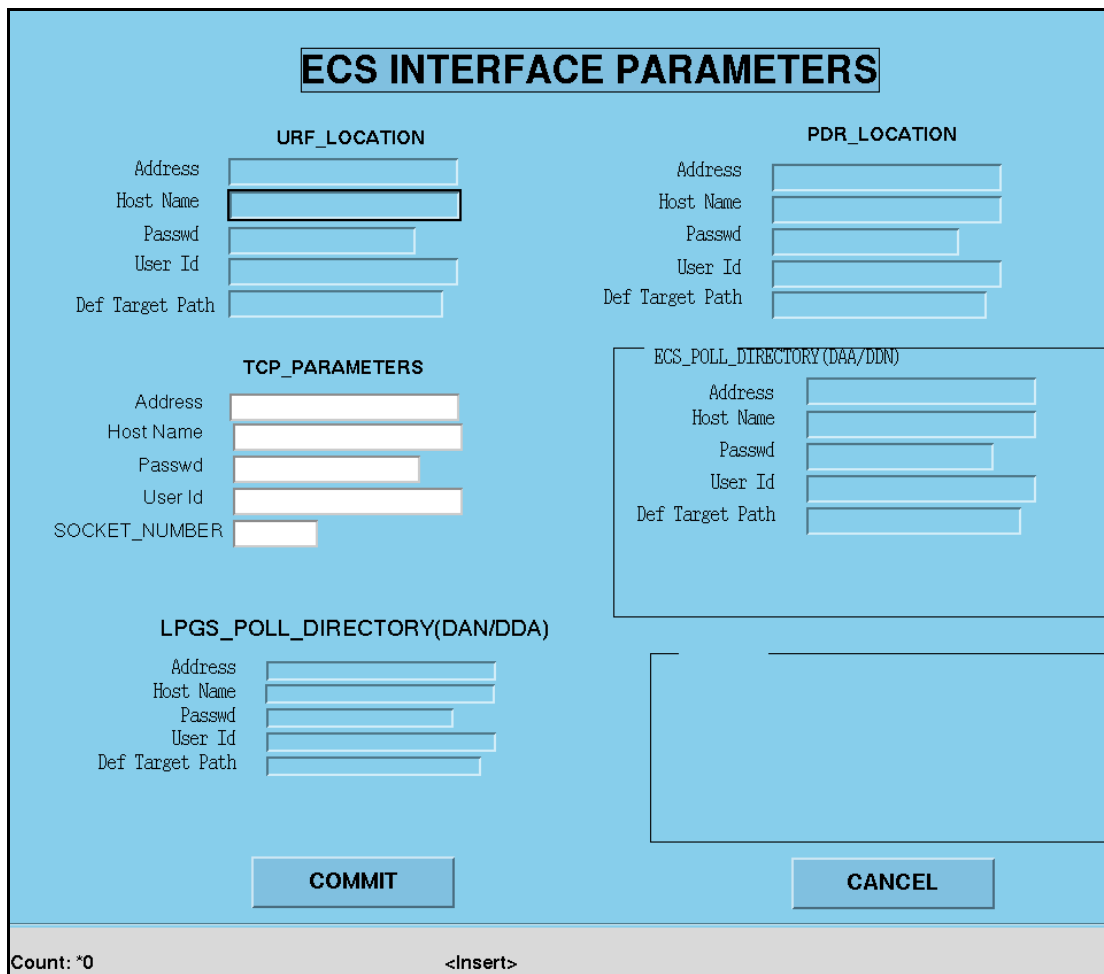
Figure 5. Configure LPGS Menu

System Monitor Product Anomaly Analysis Quality Assessment	
SET UP LPGS CONFIGURATION PARAMETERS	
RAID First Advisory Limit	65 %
RAID Second Advisory Limit	85 %
Max Concurrent Work Orders	5
Work Order Scheduler Interval	101 sec
Work Order Controller Interval	300 sec
Resource Monitor Interval	300 sec
Deletion Interval	300 sec
Check Disk Interval	300 sec
PSI Polling Interval	300 sec
File Transfer Polling Interval	100 sec
DAN Polling Interval	10 sec
<input type="button" value="OK"/> <input type="button" value="CANCEL"/>	
Count: *1 <Insert>	

Figure 6. System Parameters Form

ECS I/F Parameters

Selecting this option brings up the ECS Interface Parameters screen (Figure 7). This screen displays the information necessary for ftp and TCP access to the ECS server and location information where LPGS is to look for User Request Files (URF). The directory paths for placement of protocol files on the LPGS and ECS are displayed. Additionally, the time increments for polling the protocol files are displayed. If any of the information on the screen is modified or added the user must use the COMMIT button to update the database or the CANCEL button to leave the database unmodified.



The form is titled "ECS INTERFACE PARAMETERS" in a central box. It is divided into several sections for data entry:

- URF_LOCATION**: Fields for Address, Host Name, Passwd, User Id, and Def Target Path.
- PDR_LOCATION**: Fields for Address, Host Name, Passwd, User Id, and Def Target Path.
- TCP_PARAMETERS**: Fields for Address, Host Name, Passwd, User Id, and SOCKET_NUMBER.
- ECS_POLL_DIRECTORY(DAA/DDN)**: Fields for Address, Host Name, Passwd, User Id, and Def Target Path.
- LPGS_POLL_DIRECTORY(DAN/DDA)**: Fields for Address, Host Name, Passwd, User Id, and Def Target Path.

At the bottom of the form are two buttons: "COMMIT" and "CANCEL". Below the form area, there is a status bar with "Count: *0" on the left and "<Insert>" in the center.

Figure 7. ECS Interface Parameters Form

Start Tasks

Selecting this option brings up the Start LPGS Background Tasks screen (Figure 8). Clicking the START button will activate all LPGS background tasks and is used for cold starts. The CANCEL button bypasses this operation.

System Monitor Product Anomaly Analysis Quality Assessment

START LPGS

START CANCEL

Count: *0 <Insert>

Figure 8. Start Background Tasks Form

Restart Tasks

Selecting this option brings up the Restart LPGS Background Tasks screen (Figure 9). This screen lists the background tasks which are designed to remain active during LPGS processing. If for some reason one of these tasks exits, the operator can select it and restart it to bring the LPGS back to full functionality. To perform the operation, select the OK button, to bypass the operation select the CANCEL button.

Shutdown Tasks

Selecting this option brings up the LPGS Shut Down screen (Figure 10). The operator has the choice of allowing the background tasks to complete current processing (graceful) or aborting current processing and exiting immediately (immediate). This command affects the background tasks—the UI remains active. To perform the operation, select the OK button, to bypass the operation select the CANCEL button.

Exit

Selecting this option causes the UI to shut down.

Monitor Menu

The Monitor Menu (Figure 11) contains commands to view reports and logs of LPGS activity.

System	Monitor	Product	Anomaly Analysis	Quality Assessment
RESTART LPGS BACKGROUND TASKS				
<input type="checkbox"/> PWS (work order scheduler) <input type="checkbox"/> DIE (interface with ECS) <input type="checkbox"/> DIL (ingest LOR product) <input type="checkbox"/> DGR (generate report) <input type="checkbox"/> DXL (transmit to ECS) <input type="checkbox"/> DRM (resource manager)				
OK		CANCEL		
Count: *0		<Insert>		

Figure 9. Restart Background Tasks Form

System	Monitor	Product	Anomaly Analysis	Quality Assessment
LPGS SHUT DOWN				
<input checked="" type="radio"/> Gracefully (processing will complete)				
<input type="radio"/> Immediate (processing will be aborted)				
OK		CANCEL		
Count: *0		<Insert>		

Figure 10. Shutdown Background Tasks Form

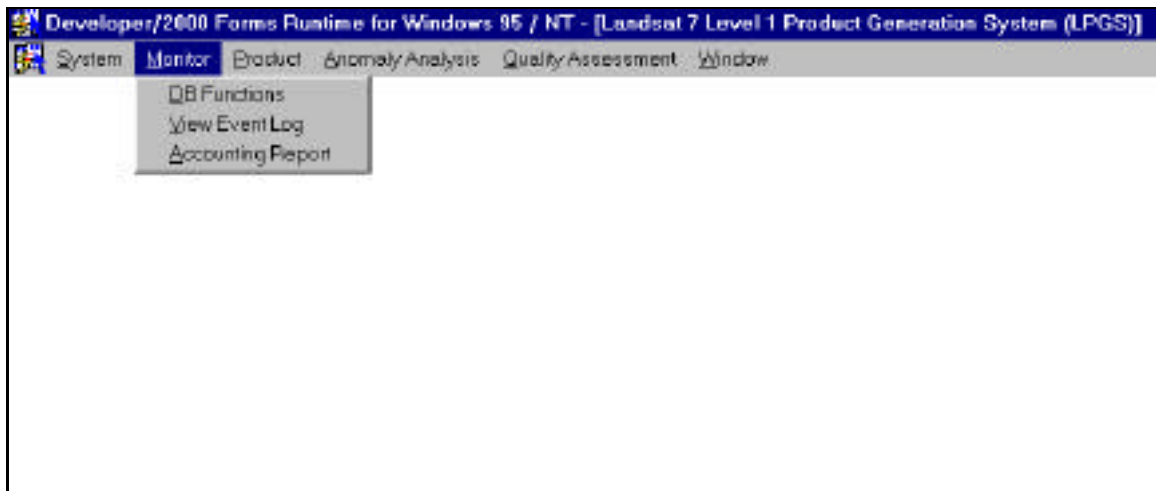


Figure 11. Monitor Menu

DB Functions

Selecting this option allows the user to execute *ad hoc* queries of the database. It invokes the Oracle product SQL*Plus and allows the operator to manipulate database objects to which the operator has been granted access.

View Event Log

Selecting this option displays the Events Log window (Figure 12) which contains informational, alert, and alarm messages from the background tasks. Since the event log window is active by default the user would only need to use this command if the event log was specifically closed by the user. The operator can filter the output by time, work order, product request, or program. Default is by time.

Processing Statistics Report

Selecting this option brings up the Processing Statistics Report screen (Figure 13). This screen reports the overall activity and throughput of the LPGS for the recent week, month, and year. This report can be printed using the PRINT button. When finished with this display, the EXIT button returns the UI to the main menu.

Product Menu

The Product menu contains commands that focus on Product Requests (Figure 14).

PROCESSING STATISTICS REPORT			
Activity	Average daily activity during the most recent		
	Week	Month	Year
Product Requests Received	xx.x	xx.x	xx.x
Scene Equivalents Received From ECS	xx.x	xx.x	xx.x
Anomalies Encountered	x.x	x.x	x.x
Trouble Tickets Received	x.x	x.x	x.x
Failed Product Requests	x.x	x.x	x.x
Cancelled Product Requests	x.x	x.x	x.x
L1R Products Generated (exclusive of L1G products)	xx.x	xx.x	xx.x
L1G Products Generated (includes L1R processing)	xx.x	xx.x	xx.x
Total Products Generated	xx.x	xx.x	xx.x

Count: *0 <Insert>

Figure 13. Processing Statistics Report

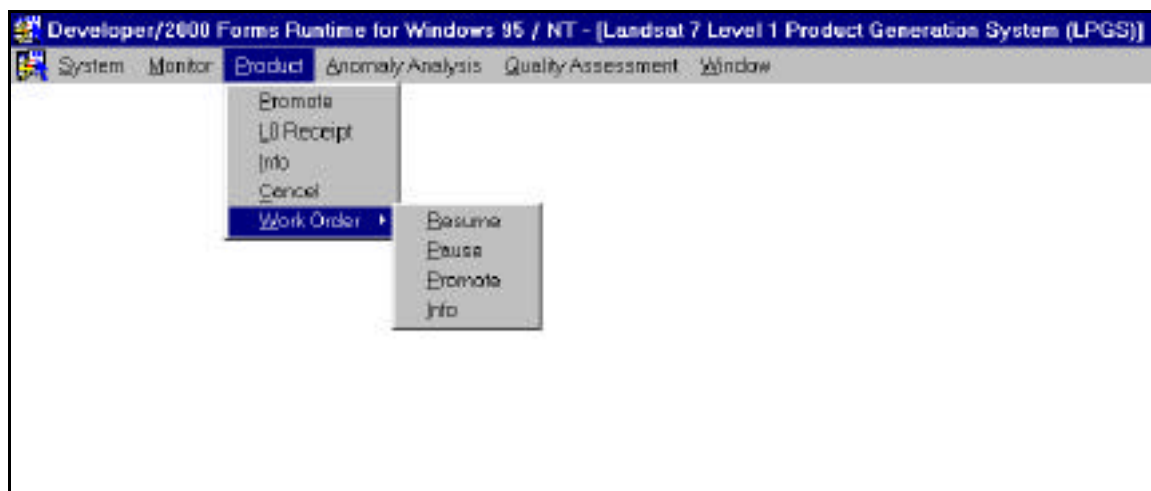


Figure 14. Product and Work Order Menus

Promote Product Request

Selecting this option brings up the Promote Product Request screen (Figure 15). The user is asked to supply the ID of the Product Request that is to be promoted. The operator may enter the ID manually or select it from a list. To perform the operation, select the COMMIT button, to bypass the operation select the RETURN button.

The screenshot shows a software interface for promoting a product request. The top menu bar includes 'System', 'Monitor', 'Product', 'Anomaly Analysis', and 'Quality Assessment'. The main window title is 'Promote Product Request'. Inside the window, there are two input fields. The first is labeled 'Product Request' and has two sub-labels, 'ID' and 'Version', positioned above its respective input boxes. The second input field is labeled 'Product Request State'. At the bottom of the main window area, there are two buttons: 'COMMIT' and 'RETURN'. Below the main window, a grey status bar displays 'Count: *0' on the left and '<Insert>' on the right.

Figure 15. Promote Product Request Form

Acknowledge LOR Product Receipt

Selecting this option brings up the Acknowledge LOR Product Receipt screen (Figure 16). This screen provides the capability to acknowledge the presence, on LPGS mass storage, of LOR image files associated with an existing Product Request and have the Product Request entered

into the LPGS processing queue. The operator provides, or selects from a list, the Product Request ID to be used in this operation. The operator also provides a fully qualified path to the image files to be used. If the files are not found, an error response is displayed to the screen allowing the operator to reenter the values. To perform the operation, select the COMMIT button, to bypass the operation select the CANCEL button.

ACKNOWLEDGE L0R PRODUCT RECEIPT

Product Request ID

Path to image files

COMMIT CANCEL

Count: *0 <Insert>

Figure 16. Acknowledge L0R Product Form

Product Request Information

Selecting this option brings up the Product Request Information screen (Figure 17). This display provides detailed information about all the Product Requests active in the system. It also provides information about the work orders associated with each Product Request.

Cancel Product Request

Selecting this option brings up the Cancel Product Request screen (Figure 18). The operator selects a product request to cancel from a list of product requests that have not completed. Once

WINDOW0

System Monitor Product Anomaly Analysis Quality Assessment

Product Request Information

Product Request Information

Product Req ID	State	Del Flag	L0 Path

Work Orders

WO ID	Proc Id	Script Id	State	L1 Path

DETAIL SCRIPT STATUS FILTER CANCEL

Count: *0 <Insert>

Figure 17. Product Request Information Form

the selection has been made, the product request's status is automatically filled in. The operator presses the COMMIT button to have the Product Request's processing canceled or the RETURN button to exit the form without performing the function.

Work Order Menu

Selecting this option brings up the Work Order submenu with options that focus on individual work orders (Figure 14).

<u>S</u> ystem <u>M</u> onitor <u>P</u> roduct <u>A</u> nomaly Analysis <u>Q</u> uality Assessment		
Cancel Product Request		
Product Request	ID	Version
	<input type="text"/>	<input type="text"/>
Product Request State	<input type="text"/>	
<input type="button" value="COMMIT"/>		<input type="button" value="RETURN"/>
Count: *0		
<Insert>		

Figure 18. Cancel Product Request Form

Resume Work Order

Selecting this option brings up the Resume Work Order screen (Figure 19). The operator selects a work order to resume from a list of paused work orders. Once the selection has been made, the work order's product request id and request type are automatically filled in. If the operator then presses the COMMIT button, work order processing will continue. If the RETURN button is pressed instead, the form will exit without performing the function.

<u>S</u> ystem	<u>M</u> onitor	<u>P</u> roduct	<u>A</u> nomaly Analysis	<u>Q</u> uality Assessment												
<div>Resume Work Order</div> <div><div>WORK_ORDERS</div><table><tr><td></td><td>ID</td><td>Type</td></tr><tr><td>Work Order</td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td></td><td>ID</td><td>Version</td></tr><tr><td>Product Request</td><td><input type="text"/></td><td><input type="text"/></td></tr></table><div><input type="button" value="COMMIT"/> <input type="button" value="RETURN"/></div></div>						ID	Type	Work Order	<input type="text"/>	<input type="text"/>		ID	Version	Product Request	<input type="text"/>	<input type="text"/>
	ID	Type														
Work Order	<input type="text"/>	<input type="text"/>														
	ID	Version														
Product Request	<input type="text"/>	<input type="text"/>														
Count: *0 <Insert>																

Figure 19. Resume Work Order Form

Pause Work Order

Selecting this option brings up the Pause Work Order screen (Figure 20). The operator selects a work order to pause from a list of work orders whose L1 processing has not yet completed. Once a selection is made, the current script entry (if the work order is currently running) and all scripts in the selected work order that remain to be executed are displayed. Note that pauses can be set or unset only on the currently executing script of the work order or on subsequent scripts.

System Monitor Product <u>A</u> nomaly Analysis <u>Q</u> uality Assessment			
Pause Work Order			
Work Order	ID	Type	
	<input type="text"/>	<input type="text"/>	
<input type="checkbox"/> Clear All <input type="checkbox"/> Pause All <input type="checkbox"/> Select Pause			
Current Script	Step	ID	Pause
	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Pending Scripts			
	Step	Script Id	Pause
<input type="button" value="▲"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="button" value="▼"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="button" value="▲"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="button" value="▼"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="button" value="COMMIT"/>		<input type="button" value="EXIT"/>	
Count: *0		<Insert>	

Figure 20. Pause Work Order Form

Earlier scripts cannot be set by this form. The operator then specifies whether to clear all pauses, set pauses, or select individual pauses. If the operator selects the individual pauses option, he/she will be able to set or unset pauses for any or none of the displayed scripts. Pressing the COMMIT button causes the desired changes to the pause flags to be recorded. If the EXIT button is pressed, the form exits without making any changes.

Promote Work Order

Selecting this option brings up the Promote Work Order screen (Figure 21). The operator selects a work order to promote from the list of work orders, or manually enters one. If the operator then presses the COMMIT button, the promoted work order will be added to the promoted work order list displayed at the bottom of the screen. The RETURN button exits the form.

System Monitor Product Anomaly Analysis Quality Assessment

Promote Work Order

WORK_ORDERS

Work Order	ID	Type
	<input type="text"/>	<input type="text"/>
Product Request	ID	Version
	<input type="text"/>	<input type="text"/>

Count: *0 <Insert>

Figure 21. Promote Work Order Form

Work Order Information

Selecting this option brings up the Work Order Information screen (Figure 22). The status of any LPGS work order can be displayed using this form. When the form is first opened, all existing 'incomplete' work orders are listed where 'incomplete' means the last work order associated with an incomplete product request. The operator uses the FILTER button to filter that list by time or request type. When a particular work order is selected by the operator, the paths to the LOR data and the L1 data for that work order are shown and buttons to access script status (SCRIPT STATUS), script parameters (SCRIPT PARAMETERS), global parameters or additional information associated with the Work Orders (WO ITEMS) become accessible.

Work Order Id	DAAC Prod Id	Procedure Id	Script Id	State
123		L1Gt Product		A
130		L1Gt Product		A
146		L1Gt Product		A
181		L1Gt Product		H
193		Geologic Accuracy		A
206		Geologic Accuracy		P

Parameters for the selected work order:

WO Path

LOR Path

Count: 6 v <Insert>

Figure 22. Work Order Information Form

Anomaly Analysis Menu

The Anomaly Analysis menu (Figure 23) provides commands that an analyst uses to view and manipulate images, as well as Product Request/Work Order Information. This analysis and manipulation is done in response to failure conditions encountered by the automatic processing or the receipt of a trouble ticket.

View Menu

Selecting this option brings up a submenu to select the type of file/information to be viewed on the screen (Figure 23).

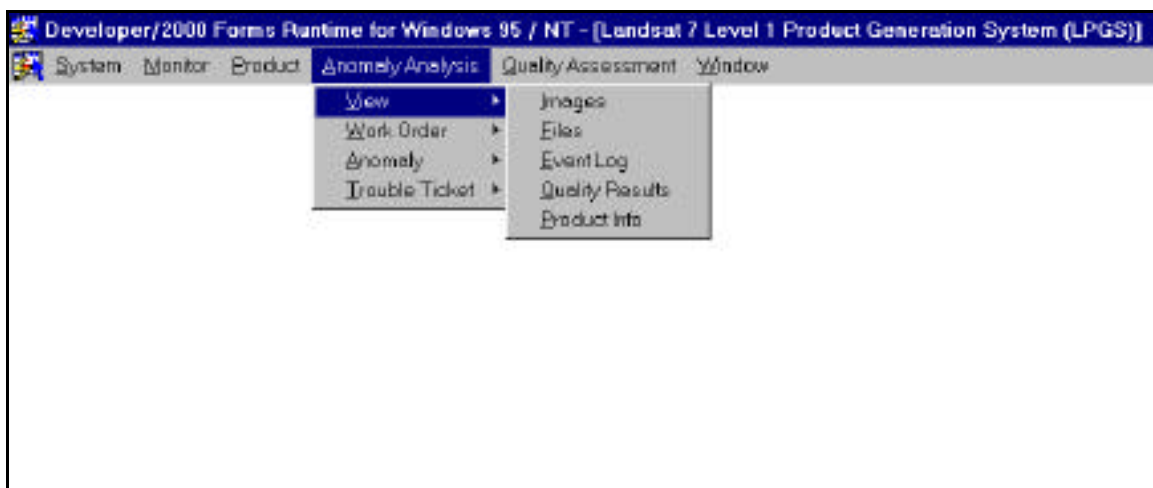


Figure 23. Anomaly Analysis and View Menus

Images

Selecting this option brings up the View Image screen (Figure 24). The analyst enters the anomaly ID directly or chooses from a list. The system completes the Product Request ID and Trouble Ticket ID if one is associated with the anomaly. The Analyst selects the type of image to be displayed (L0R, L1R, L1G, Final) and the system responds with location information. The Analyst presses the DISPLAY/PRINT button to bring up a COTS product in a separate window to hold the displayed image, and optionally print the image. The EXIT button exits the form.

Files

Selecting this option brings up the View File screen (Figure 25). The analyst specifies the work order whose ASCII files are to be examined from a list of halted work orders. The directories associated with the work order are then displayed. The analyst selects a particular directory, the ASCII files in that directory will be displayed. A text editor will be brought up in its own window when the analyst presses the DISPLAY button. The window containing the form will remain. The analyst can then transfer the directory and file information from the form to the editor window to display the appropriate files. The PRINT button sends the file to an attached printer. The EXIT button exits the form.

Event Log

Selecting this option brings up the Events Log Display. This display is identical to Monitor/View Event Log (Figure 12).

System		Monitor		Product		Anomaly Analysis		Quality Assessment	
View Image									
Anomaly ID		<input type="text"/>		LOV		TT ID		<input type="text"/>	
Product Request ID		<input type="text"/>							
Selectable Image:									
◇ L0R		L0 Path		<input type="text"/>					
◇ L1R		L1 Path		<input type="text"/>					
◇ L1G									
◇ Final		◇ Returnec							
Product Type		<input type="text"/>		Output Format		<input type="text"/>			
Image Directory		<input type="text"/>							
<input type="button" value="DISPLAY/PRINT"/>					<input type="button" value="EXIT"/>				
Count: *0									
<Insert>									

Figure 24. View Image Form

Quality Results

This screen is identical to the Quality Assessment/View Results screen.

Product Info

This screen is identical to the Product Request/Information screen (Figure 17).

Work Order Menu

Selecting this option brings up a submenu to select actions that apply to AAS generated Work Orders (Figure 26).

System Monitor Product Anomaly Analysis Quality Assessment		
View File		
WORK_ORDERS		
	ID	Type
Work Order	<input type="text"/>	<input type="text"/>
Directories	<input type="text"/>	
File Names	<input type="text"/>	
<input type="button" value="DISPLAY"/> <input type="button" value="PRINT"/> <input type="button" value="EXIT"/>		
Count: *0 <Insert>		

Figure 25. View File Form

Generate

Selecting this option brings up the Create New Work Order screen (Figure 27). The analyst selects the anomaly (Product Request) for which a work order is to be generated. The form displays the last work order processed for the selected anomaly and allows the analyst to select that or another work order from the same product request as a template for the new work order. The analyst then selects the request type for the new work order and a procedure from a list of procedures based on the request type. Procedures associated with diagnostic, benchmark, and rerun work orders will normally differ because of differences in the distribution of pauses

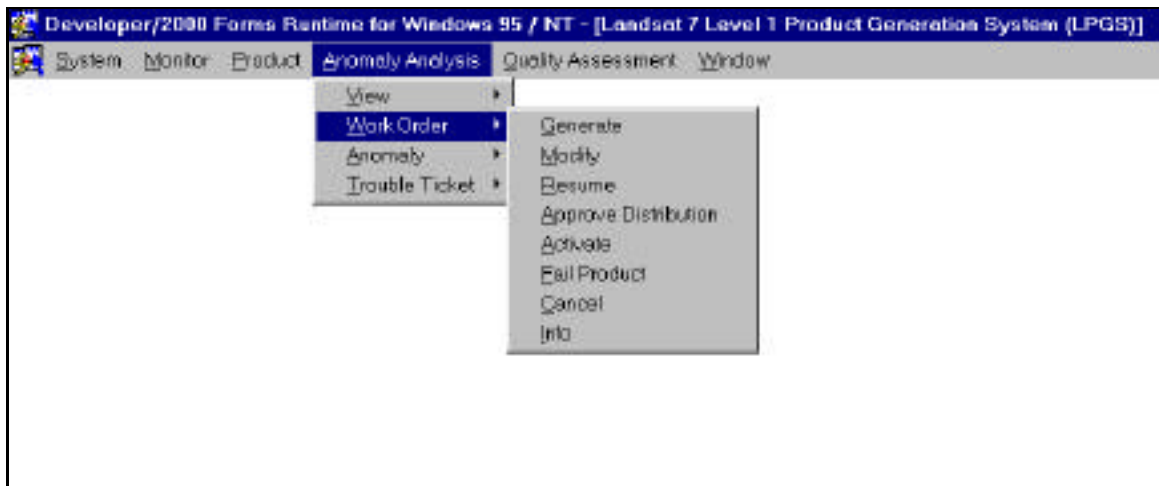


Figure 26. Anomaly Analysis Work Order Menu

System Monitor Product **Anomaly Analysis** Quality Assessment

CREATE WORK ORDER

WORK ORDER ITEMS

Old Work Order Id: Date Entered:

Product Request ID:

Request Type: ☒ Diagnostic ☐ Benchmark ☐ Rerun

Procedure ID:

WO Path:

WORK ORDER SCRIPTS

Script Id	Count
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

☐ Pause ☐ Pause ☐ Pause

Count: *0 <Insert>

Figure 27. Create Work Order Form

associated with the scripts. When the analyst presses the OK button a new work order based on the information entered is created and a new work order id is automatically assigned and displayed. The analyst modifies the pauses and/or parameters associated with the new work order using the MODIFY button. The CANCEL button exits the form without creating a new work order.

Modify

Selecting this option brings up the Modify Work Order screen (Figure 28). The analyst selects the work order to be modified from a list of the current work orders associated with

System **Monitor** **Product** **Anomaly Analysis** **Quality Assessment**

MODIFY WORK ORDER

WORK ORDER ITEMS

Work Order Id: Request Type: ☒ Diagnostic
 Product Request ID: ☐ Benchmark
 Procedure Id: ☐ Rerun
 WO Path:

WORK ORDER SCRIPTS

Script Id	State	Com	Failure Reason	Pause
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> Pause
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> Pause
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> Pause

Modify Params **OK** **CANCEL**

FRM-40350: Query caused no records to be retrieved.
 Count: *0 <Insert>

Figure 28. Modify Work Order Form

active anomalies (Product Request). The anomaly ID, the script id, and pauses for each script in the work order are displayed. The analyst uses the available buttons to set or reset any of the displayed pauses. To modify the script parameters, the analyst presses the MODIFY PARAMS button. This brings up a new screen based on the previously selected work order that lists the scripts associated with that work order (Figure 29). Selecting a particular script causes the current values of the parameters associated with that script to be displayed. The analyst modifies the value of any of the parameters before pressing the OK button to save the changes to the parameters. The CANCEL button returns to the Modify Work Order screen. The analyst presses the OK button to save the changes or the CANCEL button to exit the form.

System Monitor Product **Anomaly Analysis** Quality Assessment

MODIFY WORK ORDER PARAMETERS

Work Order Id:

Procedure Id:

Script Id

Parm Name	Element	Parm Value
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

OK CANCEL

Count: *0 <Insert>

Figure 29. Modify Work Order Parameters Form

Resume

Selecting this option brings up the Resume Work Order screen (Figure 19). This function is identical to the Resume function available to the LPGS operator under Product/Work Order menu except that only AAS-generated work orders can be selected here.

Approve Distribution

Selecting this option brings up the Approve Distribution screen (Figure 30). The analyst selects the work order for which an approval response is required from a list of AAS-generated work orders that have halted after completing processing. Pressing the COMMIT button causes the state of the product request associated with the work order to be set to SHIPPABLE. The RETURN button exits the form.

System Monitor Product Anomaly Analysis Quality Assessment				
Approve Product for Distribution				
ANOMALIES				
Anomaly	ID		Origin	
Current Work Order	ID		Type	
Product Request	ID		Version	
COMMIT		RETURN		
Count: *0		<Insert>		

Figure 30. Approve Distribution Form

Activate

Selecting this option brings up the Activate Work Order screen (Figure 31). The analyst first selects the work order to be activated from a list of AAS-generated work orders. The form then shows the product request associated with the selected work order. The analyst presses the

COMMIT button to set the state of the product request associated with the work order to PENDING. The RETURN button exits the form.

System Monitor Product Anomaly Analysis
Quality Assessment

Activate Work Order

WORK_ORDERS

Work Order	ID	Type
	<input type="text"/>	<input type="text"/>
Product Request	ID	Version
	<input type="text"/>	<input type="text"/>

Count: *0 <Insert>

Figure 31. Activate Work Order Form

Fail Product

Selecting this option brings up the Fail Product screen (Figure 32). The analyst selects the product request to be failed from a list of product requests whose current work orders have

System Monitor Product Anomaly Analysis Quality Assessment		
Fail Product		
ANOMALIES		
Anomaly	ID	Origin
	<input type="text"/>	<input type="text"/>
Current Work Order	ID	Type
	<input type="text"/>	<input type="text"/>
Product Request	ID	Version
	<input type="text"/>	<input type="text"/>
<input type="button" value="COMMIT"/>		<input type="button" value="RETURN"/>
Count: *0		
<Insert>		

Figure 32. Fail Product Form

failed. The COPY TO TAPE button allows the form to copy the LOR and intermediate files to tape. The analyst presses the COMMIT button to have the state of the product request set to FAILED. The RETURN button exits the form.

Cancel

Selecting this option brings up the Cancel Work Order screen (Figure 33). The analyst selects the work order to be canceled from a list of AAS-generated work orders. The currently executing script or the next script to be executed for the selected work order, and the product request ID associated with the work order are displayed. If a script is executing, the analyst selects whether to cancel immediately or at the end of the executing script. If a script is not executing only immediate cancellation is possible. The analyst selects the COMMIT key to invoke cancellation or RETURN key to bypass this operation.

System Monitor Product <u>A</u> nomaly Analysis <u>Q</u> uality Assessment			
Cancel Work Order			
WORK_ORDERS			
	ID	Type	
Work Order	<input type="text"/>	<input type="text"/>	
	ID	Step	
Current Script	<input type="text"/>	<input type="text"/>	
	ID	Version	
Product Request	<input type="text"/>	<input type="text"/>	
Cancel When?	<input checked="" type="radio"/> At end of current script <input type="radio"/> Immediately		
<input type="button" value="COMMIT"/>		<input type="button" value="RETURN"/>	
Count: *0		<Insert>	

Figure 33. Cancel Work Order Form

Info

Selecting this option brings up the Work Order Information screen. This screen is identical to Product Request/Work Order Information (Figure 22).

Anomaly Menu

Selecting this option brings up a submenu to select actions that apply to Anomalies (Figure 34).

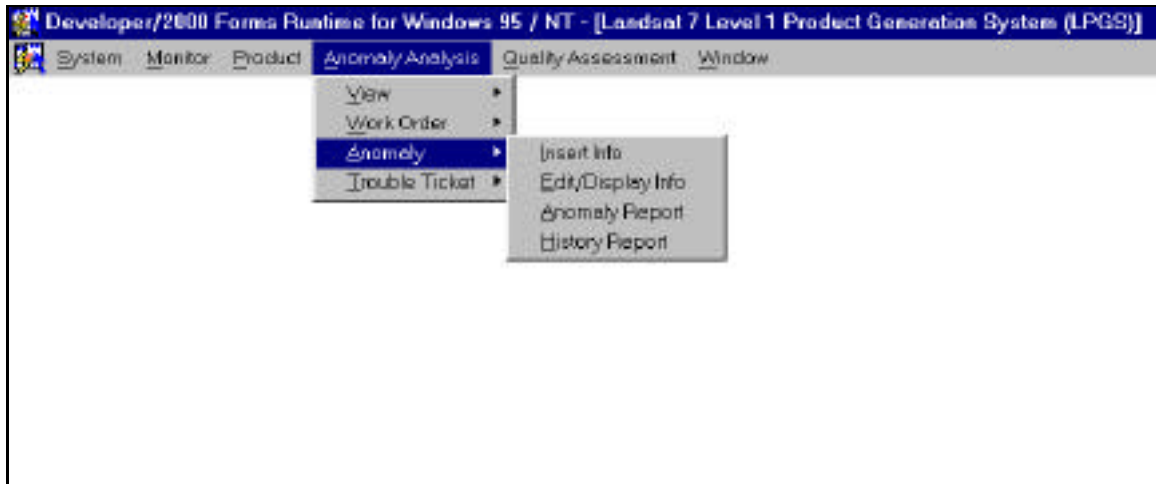


Figure 34. Anomaly Analysis - Anomaly Menu

Insert Info

Selecting this option brings up the Enter New Anomaly screen (Figure 35). Anomalies can arise from internal processing or received Trouble Tickets and affect the use of the fields of this screen. The operator defines the source of the anomaly in the ORIGIN field as either a Trouble Ticket or internal. If the source is a Trouble Ticket, the Trouble Ticket ID and Original Product Request ID are entered. If the anomaly is internal, the operator selects the current work order from a list of Work Orders displayed. The operator then enters the Title, Description, and optionally the Resolution fields. The COMMIT button creates the record based on entered information; the CLEAR button clears the screen of entered information; and, the EXIT button bypasses the operation.

Edit/Display Info

Selecting this option brings up the Edit/Close Anomaly screen (Figure 36). To edit an existing anomaly, the analyst selects the anomaly to be edited or closed from a pop-up list generated when the LOV button is pressed. The remaining fields are populated from the Anomaly table in the database. Any of these fields can be edited by the Analyst. Pressing the COMMIT button will save all changes to the Anomalies table. Pressing the CLEAR button returns the form to its initial state. Pressing the CLOSE button changes the status of the anomaly to CLOSED. The EXIT button exits the form without performing any action.

<u>S</u> ystem <u>M</u> onitor <u>P</u> roduct <u>A</u> nomaly Analysis <u>Q</u> uality Assessment			
Enter New Anomaly			
Anomaly ID	<input type="text"/>	Date Entered	<input type="text"/>
Origin	<input type="text"/>	Trouble Ticket ID	<input type="text"/>
		ID	Version
Original Product Request	<input type="text"/>	<input type="text"/>	
Returned Product Location	<input type="text"/>		
Current Work Order	<input type="text"/>		
Title	<input type="text"/>		
Description	<input type="text"/>		
Analysis/ Resolution	<input type="text"/>		
<input type="button" value="COMMIT"/>		<input type="button" value="CLEAR"/>	
		<input type="button" value="EXIT"/>	
Count: *0			
<Insert>			

Figure 35. Enter New Anomaly Form

System Monitor Product Anomaly Analysis Quality Assessment			
Edit/Close Anomaly			
ANOMALIES			
Anomaly ID	<input type="text"/>	LOV	Date Entered <input type="text"/>
Product Request	<input type="text"/>	Origin	<input type="text"/>
Trouble Ticket ID	<input type="text"/>	Status	<input type="text"/>
Original Product Request	<input type="text"/>	ID	Version <input type="text"/>
Returned Product Location	<input type="text"/>		
Current Work Order	<input type="text"/>		
Title	<input type="text"/>		
Description	<input type="text"/>		
Analysis/ Resolution	<input type="text"/>		
<input type="button" value="COMMIT"/> <input type="button" value="CLEAR"/> <input type="button" value="EXIT"/> <input type="button" value="CLOSE"/>			
Count: *0		<Insert>	

Figure 36. Edit/Close Anomaly Form

Anomaly Report

Selecting this option brings up the Anomaly Report screen (Figure 37). The analyst filters the information by time, origin, or status. Default is by time. Pressing the DISPLAY SUMMARY button displays information on the filtered set of anomalies. The PRINT SUMMARY button allows the filtered display to be printed. The DISPLAY DETAIL button displays another screen showing detailed description and resolution information for the selected anomaly. The PRINT DETAIL button prints the detailed information for the filtered list of anomalies, one anomaly per page. The EXIT button exits the original database form. The REFRESH button updates the screen after the filter or sort criteria have been changed.

System
Monitor
Product
Anomaly Analysis
Quality Assessment

Anomaly Report

ANOMALIES

Filter by:

☐ Time Range

☐ Origin

☐ Status

Refresh Rate

Sort by:

☒ Anomaly ID

☐ Date Closed

Anomaly ID	Origin	Date Entered	Date Closed	Title

DISPLAY SUMMARY

REFRESH

EXIT

DISPLAY DETAIL

PRINT SUMMARY

PRINT DETAIL

Count: *0
<Insert>

Figure 37. Anomaly Report

Trouble Ticket Menu

Selecting this option brings up a submenu to select actions that apply to Trouble Tickets (Figure 38).

Display

Selecting this option brings up the Trouble Ticket Display screen (Figure 39) which accesses the Remedy system.

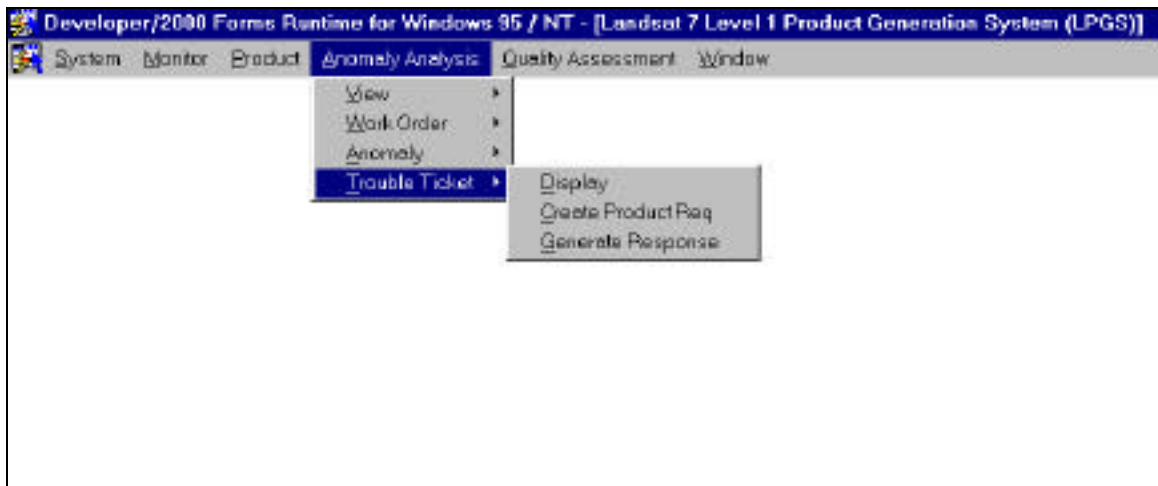


Figure 38. Anomaly Analysis Trouble Ticket Menu

Form TDB

Figure 39. Trouble Ticket Display Screen

Create Product Request

Selecting this option brings up the Create/Edit Product Request screen (Figure 40). This screen provides the capability to generate a product request for anomalies associated with Trouble Tickets. The Analyst can directly enter the Anomaly ID or choose from a list. The system completes the screen based on information from the original Product Request. The Analyst can modify the values displayed before pressing the COMMIT button to create the Product Request. The EXIT button exits the form without performing any action.

Generate Response

Selecting this option brings up the Generate Response screen (Figure 41). Pressing the XMIT button brings up the REMEDY system in a separate window leaving the original window open so that the analyst can cut anomaly information from it and paste it into the appropriate REMEDY form. The analyst can obtain more detailed information about a specific trouble ticket by selecting the appropriate anomaly id. The EXIT button exits the original database form.

Quality Assessment Menu

This menu provides commands to view/print images and reports, and approve/disapprove the results of automatic processing (Figure 42).

System Monitor Product Anomaly Analysis Quality Assessment				
Create/Edit Product Request				
ANOMALIES				
Select Anomaly	Anomaly ID	Trouble Ticket ID	Prod Req ID	Version
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
		LOW		
Product Type	<input type="text"/>	Band Combination	<input type="text"/>	
Calibration Method	<input type="text"/>	Output Format	<input type="text"/>	
Map Projection	<input type="text"/>	Map Pojection Params	<input type="text"/>	
Orientation	<input type="text"/>	Universal Reference	<input type="text"/>	
Pan Grid Cell Size	<input type="text"/>	Reflective Grid Cell Size	<input type="text"/>	
Thermal Grid Cell Size	<input type="text"/>	Resampling Option	<input type="text"/>	
Scan Line Start	<input type="text"/>	Scan Line End	<input type="text"/>	
Ellipsoid	<input type="text"/>	Datum	<input type="text"/>	
<input type="button" value="COMMIT"/>		<input type="button" value="EXIT"/>		
Count: *0				
<Insert>				

Figure 40. Create New Product Request Form

Form TBD

Figure 41. Generate Trouble Ticket Response Form



Figure 42. Quality Assessment Menu and View Submenu

View

Selecting this option brings up a submenu to select images or results for viewing (Figure 42).

View Image

Selecting this option brings up the View Image Screen (Figure 43). The COUNTER field represents the number of products requiring visual Quality Assessment. This field is refreshed at a rate specified in the REFRESH RATE field. The Refresh Rate field is modifiable by the Analyst. The Analyst selects a work order for viewing by entering an ID or selecting from the presented list. The remainder of the screen is filled by the system based on the Work Order ID.

The DISPLAY/PRINT button brings up a COTS product in a separate window for viewing the image and, optionally, printing it. The analyst transfers the file/directory information into the display screen for viewing. The REFRESH button updates the COUNTER field when pressed and the EXIT button exits this form.

View Results

Selecting this option brings up the View Results Screens (Figures 44 and 45).

Operator Approval

Selecting this option brings up a submenu for selecting the image to be approved/disapproved from a list of available products. Once selected, a screen is presented for the operator to make a choice of actions (Figure TBD).

System Monitor Product Anomaly Analysis Quality Assessment			
View Image			
Work Order ID	<input type="text"/>	LOV	Refresh Rate <input type="text"/>
Product Request ID	<input type="text"/>		Counter <input type="text"/>
Last Accessible Image:			
◆ L1R	L1 Path <input type="text"/>		
◆ L1G			
◆ Final	Product Type <input type="text"/>	Output Format	<input type="text"/>
	Product Delivery Directory	<input type="text"/>	
DISPLAY/PRINT		REFRESH	EXIT
Count: *0		<Insert>	

Figure 43. Quality Assessment View Image Screen

LPGS Quality Analysis Subsystem Operator Report				
Work Order Number: Product Request Number: Scan Date: DD_MM_YY		Requested Date: DD_MM_YY Customer Name Customer Address Customer Address		
NAME	MEASURED VALUE	EXPECTED VALUE	ACCEPTABLE VALUES	Flag for Out of Bounds
Dropped Lines	N integer		N < Y integers	*
Detector Saturation	N %		N < Y %	
Random Noise:				
Expected Value (EV)	N integer	N integer	X < N < Y integers	
Standard Dev. from EV	N real	N real	X < N < Y real	
Histogram Analysis				
Expected Value (EV)	N integer	N integer	X < N < Y integers	
Standard Dev. from EV	N real	N real	X < N < Y real	
Detector Calibration:				
Detector Number	N integer		N/A	
Gain	N integer		X < N < Y integers	
Bias	N integer		X < N < Y integers	
Temperature Values	Present/ Not Present	Present	Present	

Page: 1 of 2

Figure 44. View Results Screen (Page 1)

LPGS Quality Analysis Subsystem Operator Report				
Work Order Number: Product Request Number: Scan Date: DD_MM_YY		Requested Date: DD_MM_YY Customer Name Customer Address Customer Address		
NAME	MEASURED VALUE	EXPECTED VALUE	ACCEPTABLE VALUES	Flag for Out of Bounds
EOSAT Quality Numbers Scan Start Time Scan Stop Time	N integer HH_MM_SS HH_MM_SS		X < N < Y	
Page: 2 of 2				

Figure 45. View Results Screen (Page 2)

Screens by Release

The following user interface screens are tentatively scheduled for inclusion in LPGS Release 1:

- Enter New Anomaly
- Edit/Close Anomaly
- DB Functions
- Events Log
- System Parameters
- Shut Down Background Tasks
- Restart Background Tasks
- Start Background Tasks
- Pause Work Order
- Resume Work Order
- Product Request Information
- Work Order Information

The remaining user interface screens are scheduled for inclusion in LPGS Release 2.